ACCESSION NUMBER:

1998:608601

DOCUMENT NUMBER:

129:216521

TITLE:

Preparation of 1-isoquinolinone-3-carboxylates

as PDE V inhibitors

INVENTOR(S):

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PATENT ASSIGNEE(S):

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SOURCE:

PCT Int. Appl., 299 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

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OTHER SOURCE(S):

MARPAT 129:216521

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Title compds. [I; R = H or substituent(s); R1 = H, NH2, AΒ (cyclo)alkyl, heterocyclyl, aryl, etc.; R2 = (esterified) CO2H, CONH2, N-attached heterocyclylcarbonyl, etc.; R3 = (un) substituted Ph] were prepared as PDE V inhibitors (no data). Thus, 5-benzyloxy-4-methoxy-2-(3,4,5-trimethoxybenzoyl)benzoic acid was cyclocondensed with CH2 (CO2CMe3)2 and the hydrated product cyclocondensed with 4-(H2N)C6H4NHCO2CMe3 to give, in 4 addnl. steps, title compound II [R1 = C6H4(NH2)-4, R3 = C6H2(OMe)3-3,4,5, R4 = 2-pyridylmethoxy].

IT 212498-74-3P 212499-20-2P 212499-85-9P 212500-32-8P 212500-49-7P 212500-73-7P

(preparation of 1-isoquinolinone-3-carboxylates as PDE V inhibitors)

RN 212498-74-3 HCAPLUS

CN 3-Isoquinolinecarboxylic acid, 2-(4-aminophenyl)-7-[(3,5-diaminophenyl)methoxy]-1,2-dihydro-6-methoxy-1-oxo-4-(3,4,5-trimethoxyphenyl)-, methyl ester, trihydrochloride (9CI) (CA INDEX NAME)

PAGE 1-A

- CHA

$$\begin{array}{c|c} \text{OMe} \\ \text{MeO} & \text{OMe} \\ \\ \text{H}_2\text{N} & \text{OMe} \\ \\ \text{O} & \text{CH}_2 \\ \\ \text{NH}_2 \end{array}$$

PAGE 2-A

●3 HCl

RN 212499-20-2 HCAPLUS
CN 3-Isoquinolinecarboxylic acid, 2-(4-aminophenyl)-7-[(3,5-diaminophenyl)methoxy]-1,2-dihydro-1-oxo-4-(3,4,5-trimethoxyphenyl)-, methyl ester, trihydrochloride (9CI) (CA INDEX NAME)

PAGE 1-A

$$MeO$$
 MeO
 OMe
 OMe

PAGE 2-A

●3 HCl

RN 212499-85-9 HCAPLUS

CN 3-Isoquinolinecarboxylic acid, 2-(4-aminophenyl)-7-[(3,5-diaminophenyl)methoxy]-4-(3,5-dimethoxy-4-methylphenyl)-1,2-dihydro-1-oxo-, methyl ester, trihydrochloride (9CI) (CA INDEX NAME)

PAGE 1-A

$$\begin{array}{c} \text{MeO} \\ \text{MeO} \\ \text{O} \\ \text{N} \\ \text{O} \\ \text{O} \\ \text{NH}_2 \\ \text{N$$

PAGE 2-A

●3 HCl

RN 212500-32-8 HCAPLUS

CN

3-Isoquinolinecarboxylic acid, 2-(4-aminophenyl)-7-[(3,5-diaminophenyl)methoxy]-1,2-dihydro-6-methoxy-1-oxo-4-(3,4,5-trimethoxyphenyl)-, methyl ester (9CI) (CA INDEX NAME)

$$H_2N$$
 R
 OMe
 OMe

RN 212500-49-7 HCAPLUS

CN 3-Isoquinolinecarboxylic acid, 2-(4-aminophenyl)-7-[(3,5-diaminophenyl)methoxy]-1,2-dihydro-1-oxo-4-(3,4,5-trimethoxyphenyl)-, methyl ester (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} \text{OMe} \\ \text{MeO} & \text{OMe} \\ \\ \text{N} & \text{O} & \text{CH}_2 \\ \\ \text{N} & \text{N}_2 \\ \end{array}$$

RN 212500-73-7 HCAPLUS

CN 3-Isoquinolinecarboxylic acid, 2-(4-aminophenyl)-7-[(3,5-diaminophenyl)methoxy]-4-(3,5-dimethoxy-4-methylphenyl)-1,2-dihydro-1-oxo-, methyl ester (9CI) (CA INDEX NAME)

$$\begin{array}{c} \text{MeO} & \text{OMe} \\ \\ \text{H}_2\text{N} & \text{O} & \text{CH}_2 \\ \\ \text{O} & \text{NH}_2 \\ \end{array}$$

IC ICM C07D217-26
 ICS A61K031-47; C07D401-12; C07D409-12; C07D401-04; C07D401-06;